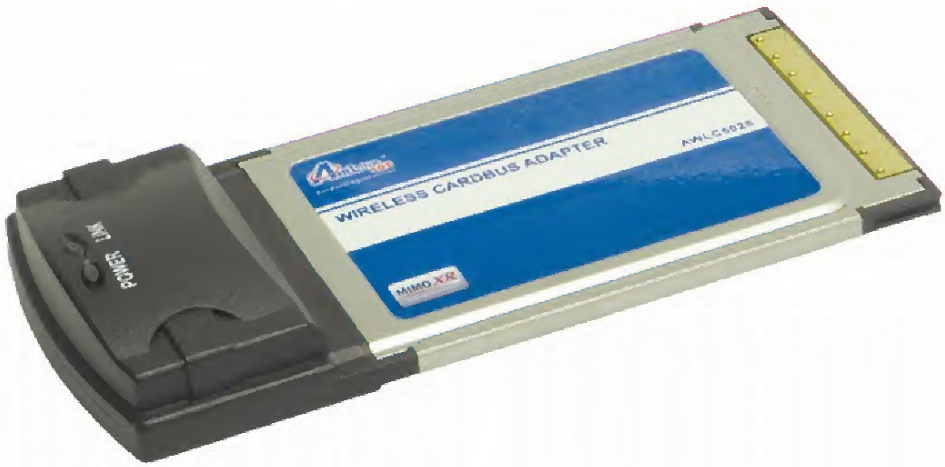
AIRLINK 101™



MIMO XR™ 802.11g Cardbus Adapter

Model # AWLC5025

User's Manual

Ver. 1A

Downloaded from www.Manualslib.com manuals search engine

Table of Contents

1. Introduction 3
1.1 Package Contents 3
2. Installation 4
2.1 Install Driver & Utility 4
2.2 Verify Driver Installation 9
3. Configure the Cardbus Adapter 11
4. Configure the Wireless Utility 16
4.1 Link Information 16
4.2 AP List 18
4.3 Configure Encryption Settings 19
4.4 Profile Setting 24
4.5 Static IP Setting 28
4.6 About 29
Technical Support 30

Downloaded from www.Manualslib.com manuals search engine

1. Introduction

Thank you for purchasing the MIMO XR™ Cardbus Adapter. When used with other Airlink101™ MIMO XR™ wireless products, the wireless signal range extends farther than standard 802.11g products.

This Adapter supports 64/128-bit WEP data encryption that protects your wireless network from eavesdropping. It also supports WPA (Wi-Fi Protected Access) feature that combines IEEE 802.1x and TKIP (Temporal Key Integrity Protocol) technologies. Client users are required to authorize before accessing the APs or AP Routers, and the data transmitted through the network is encrypted/decrypted by a dynamically changing secret key.

1.1 Package Contents

Before you begin the installation, please check the items of your package. The package should include the following items:

- One MIMO XR™ Cardbus Adapter
- One Quick Installation Guide
- One Installation CD (Driver/Utility/Manual)

Downloaded from www.Manualslib.com manuals search engine

2. Installation

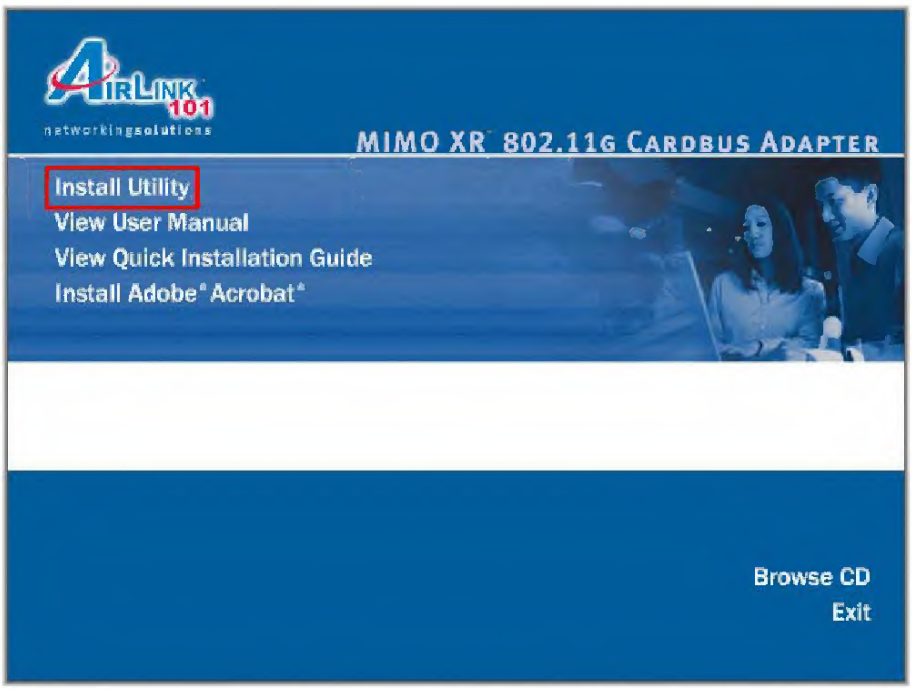
2.1 Install Driver & Utility

This section provides instructions on how to install the **MIMO XR™ Cardbus Adapter**. The driver is installed along with the utility.

Note: *Do not insert the Cardbus Adapter until you have reached the appointed step.*

For Windows 98SE and ME users, you may be prompted to insert the Windows 98SE or ME CD during the driver installation. Be sure to have your Windows 98SE or ME CD ready.

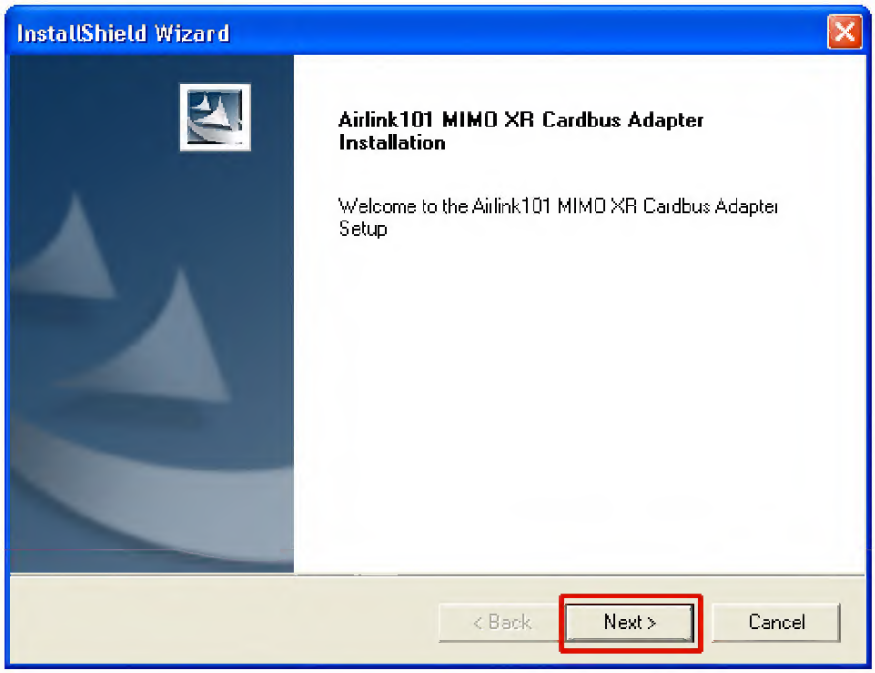
Step 1 Insert the Driver & Utility CD into your CD drive and select **Install Utility** from the menu.



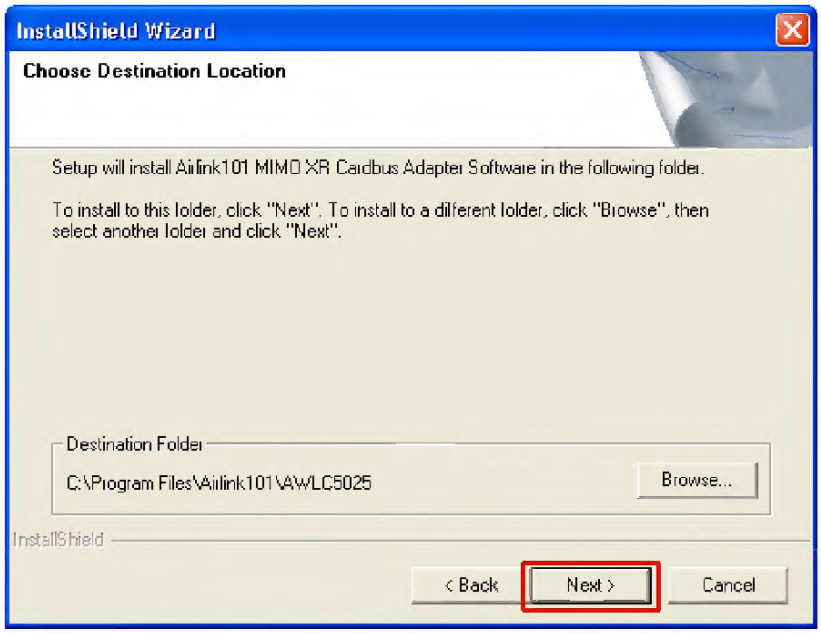
Note: *If the Autorun screen doesn't appear automatically go to* ***Start***, ***Run***, *and type* ***D:\autorun.exe*** *(where* ***D*** *is the letter of your CD drive) and click* ***OK***.

Downloaded from www.Manualslib.com manuals search engine

Step 2 Click **Next** at the welcome screen.

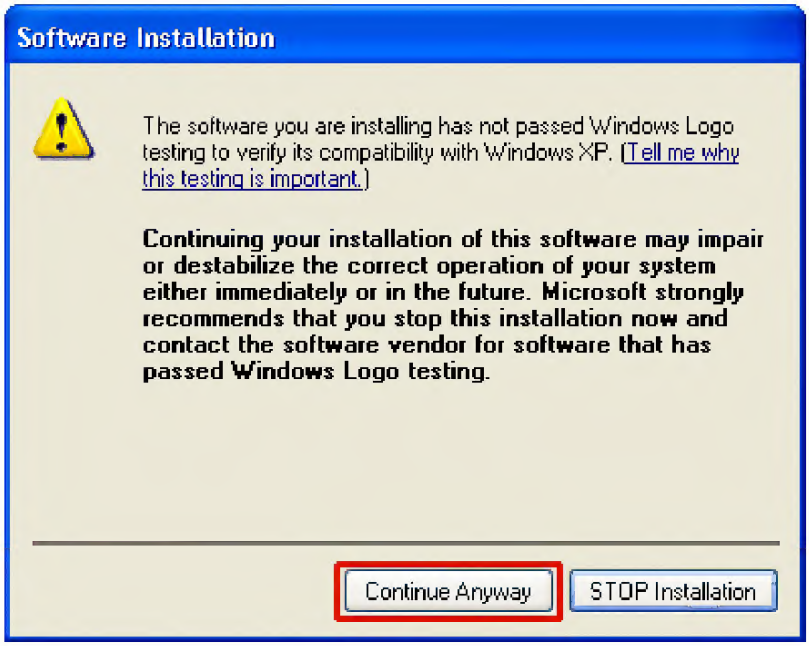

InstallShield Wizard
Airlink101 MIMO XR Cardbus Adapter Installation
Welcome to the Airlink101 MIMO XR Cardbus Adapter Setup
< Back
Next >
Cancel

Step 3 Click **Next** to accept the default destination folder.

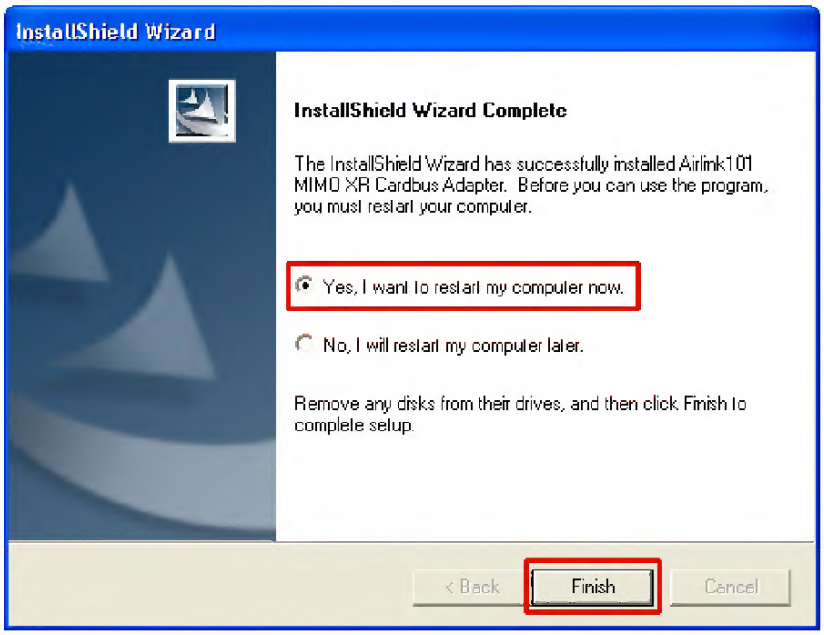

InstallShield Wizard
Choose Destination Location
Setup will install Airlink101 MIMO XR Cardbus Adapter Software in the following folder.
To install to this folder, click "Next". To install to a different folder, click "Browse", then select another folder and click "Next".
Destination Folder
C:\Program Files\Airlink101\AWLC5025
Browse...
InstallShield
< Back
Next >
Cancel

Downloaded from www.Manualslib.com manuals search engine

Step 4 Click **Continue Anyway** at the Windows Logo Screen.
(For Windows 2000, click **Yes** at the Digital Signature Not Found prompt).

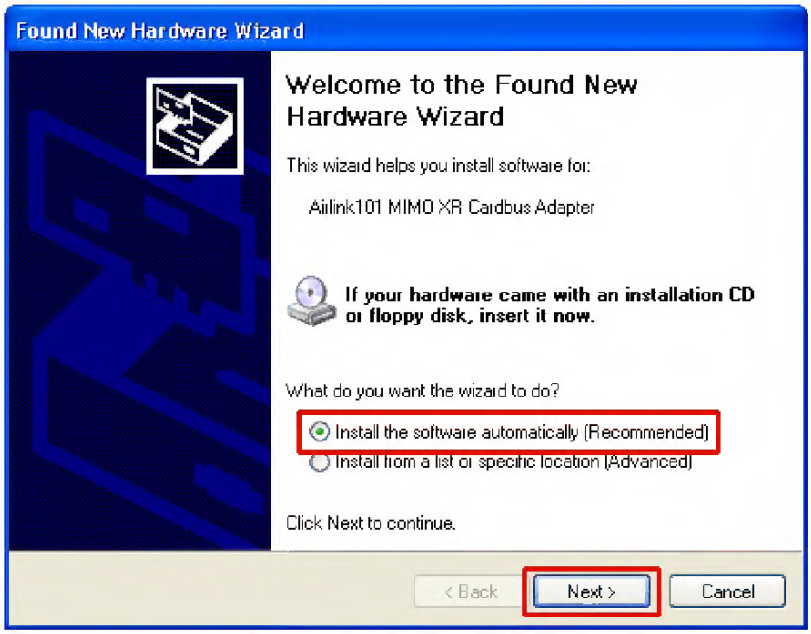

Software Installation
The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

Step 5 Verify **Yes, I want to restart my computer now** is selected and click **Finish** to restart your computer.

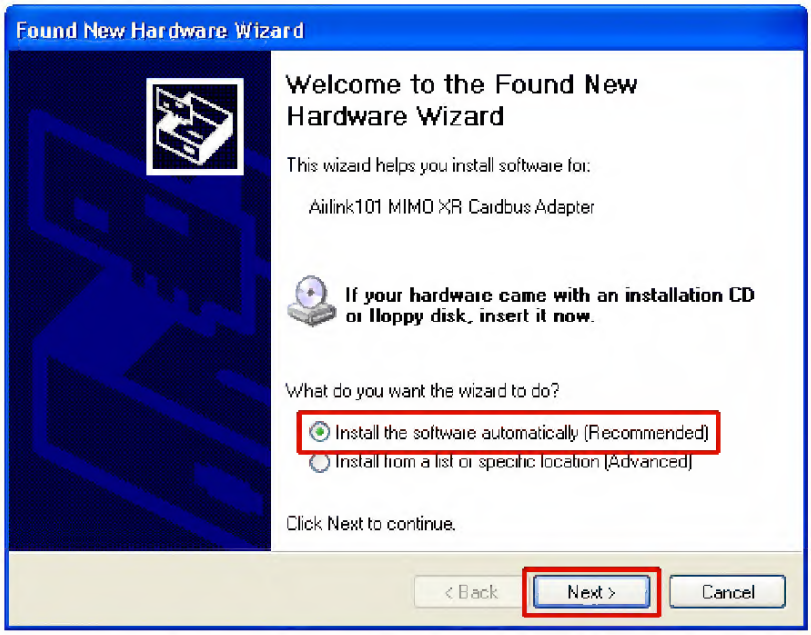

InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Airlink101 MIMO XR Cardbus Adapter. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

Downloaded from www.Manualslib.com manuals search engine

Step 6 After your computer is restarted, insert the Cardbus Adapter.


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
Ailink101 MIMO XR Cardbus Adapter
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

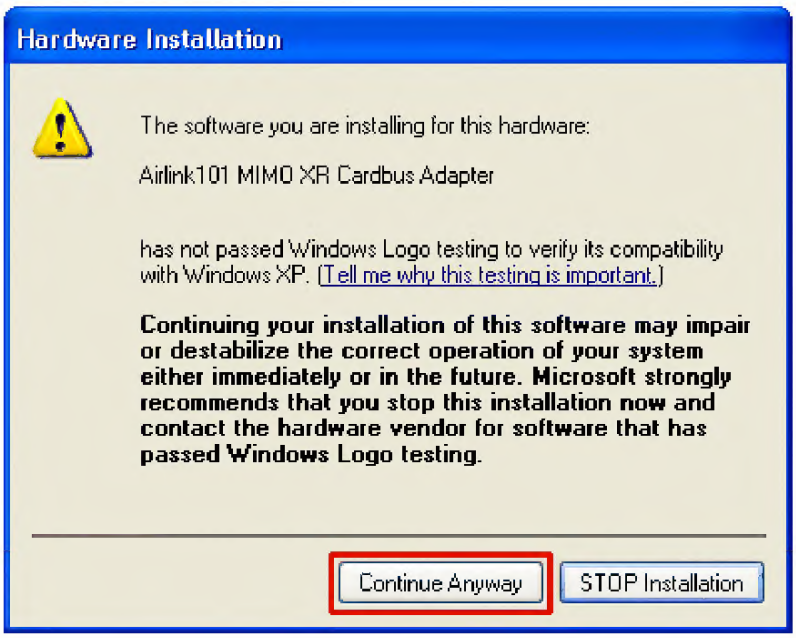
Step 7 Select **Install the software automatically** and click **Next.**


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
Ailink101 MIMO XR Cardbus Adapter
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

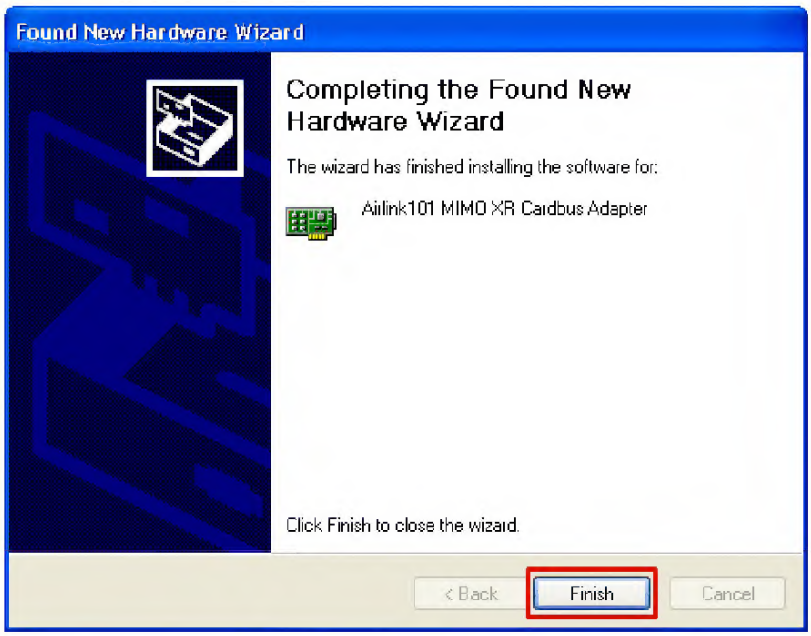
For Windows 98SE and ME, select **Search for the best driver for your device** and click **Next**. Verify all the check boxes are checked and click **Next.**

Downloaded from www.Manualslib.com manuals search engine

Step 8 Click **Continue Anyway** at the Windows Logo Screen.
(For Windows 2000, click **Yes** at the Digital Signature Not Found prompt).


Hardware Installation
The software you are installing for this hardware:
Airlink101 MIMO XR Cardbus Adapter
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

Step 9 Click **Finish**. (Restart the computer for Windows 98SE and ME).


Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
Airlink101 MIMO XR Cardbus Adapter
Click Finish to close the wizard.
< Back
Finish
Cancel

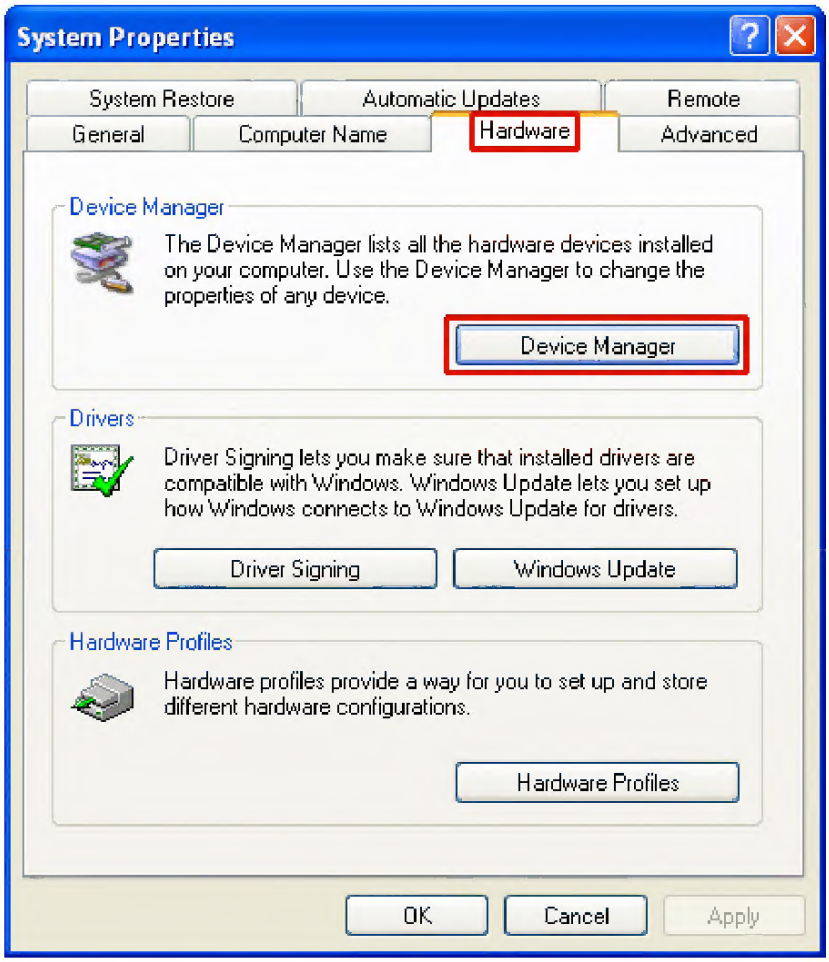
Downloaded from www.Manualslib.com manuals search engine

2.2 Verify Driver Installation

To verify if the driver has been installed successfully, please perform the following steps.

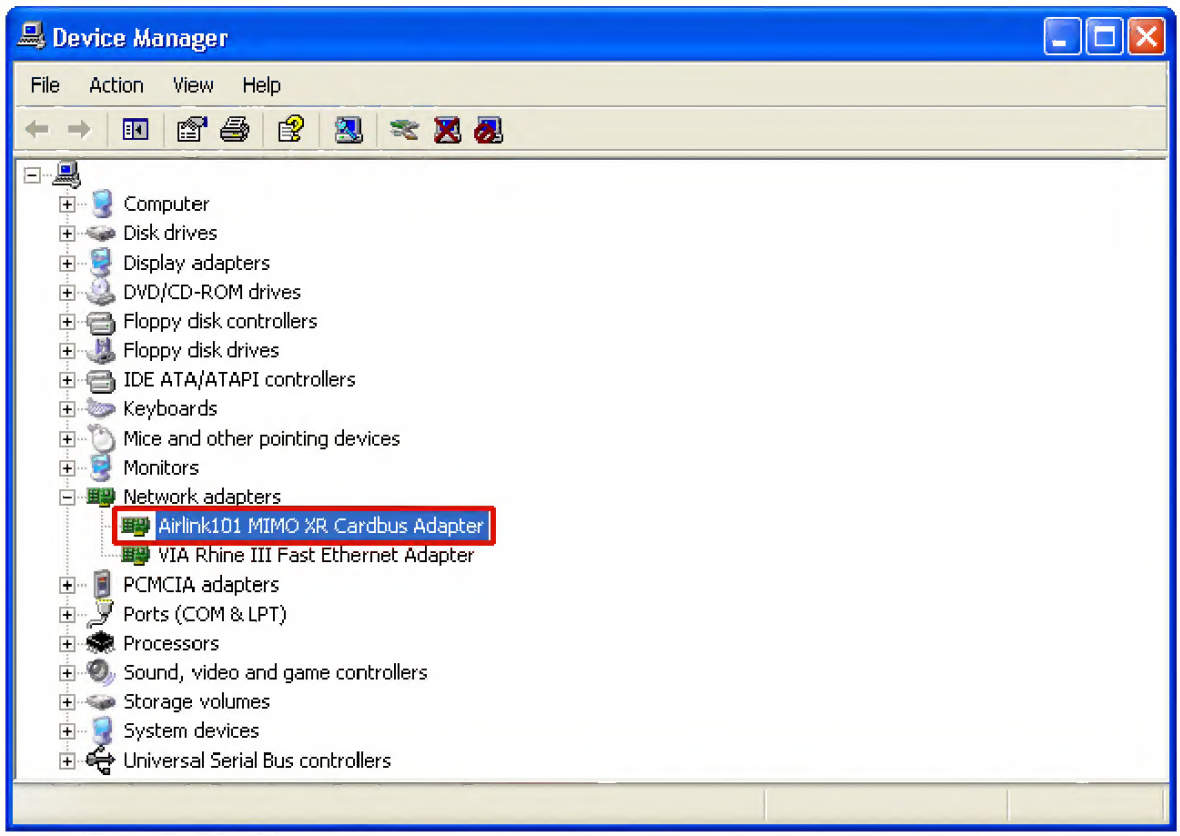
Step 1 Right-click on **My Computer** from your desktop and select **Properties**.

Step 2 Select the **Device Manager** tab. (For Windows 2000/XP, select the **Hardware tab** first then click on **Device Manager**).


System Properties
System Restore
Automatic Updates
Remote
General
Computer Name
Hardware
Advanced
Device Manager
The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.
Device Manager
Drivers
Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers.
Driver Signing
Windows Update
Hardware Profiles
Hardware profiles provide a way for you to set up and store different hardware configurations.
Hardware Profiles
OK
Cancel
Apply

Downloaded from www.Manualslib.com manuals search engine

Step 3 Expand **Network adapters** from the list and verify that **Airlink101 MIMO XR Cardbus Adapter** is listed and no yellow question mark is beside it.



If **Airlink101 MIMO XR Cardbus Adapter** is not listed, or you see a yellow question mark beside it, please re-install the driver again.

Downloaded from www.Manualslib.com manuals search engine

3. Configure the Cardbus Adapter

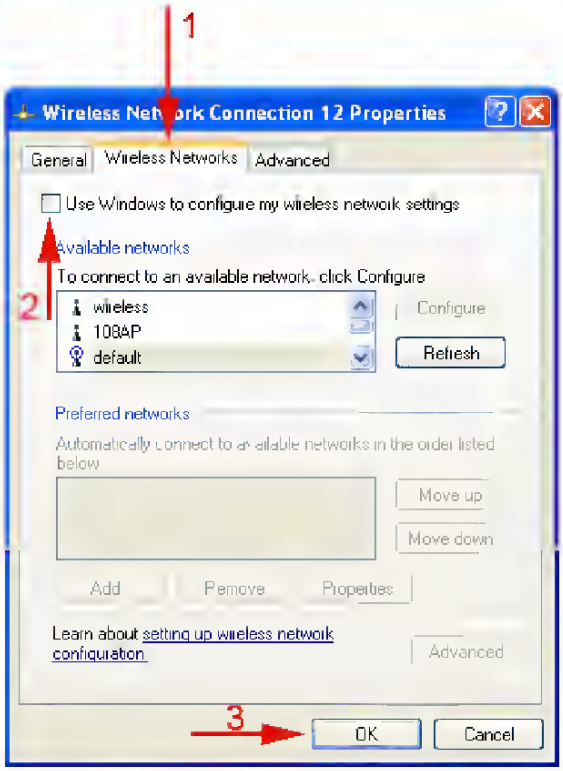
This section describes how to connect your **MIMO XR™ Cardbus Adapter** to a wireless network.

Note to Windows XP Users:

You must disable the Wireless Zero Configuration Utility in order to use the bundled Wireless Utility. Please follow the steps below to disable XP's wireless utility.

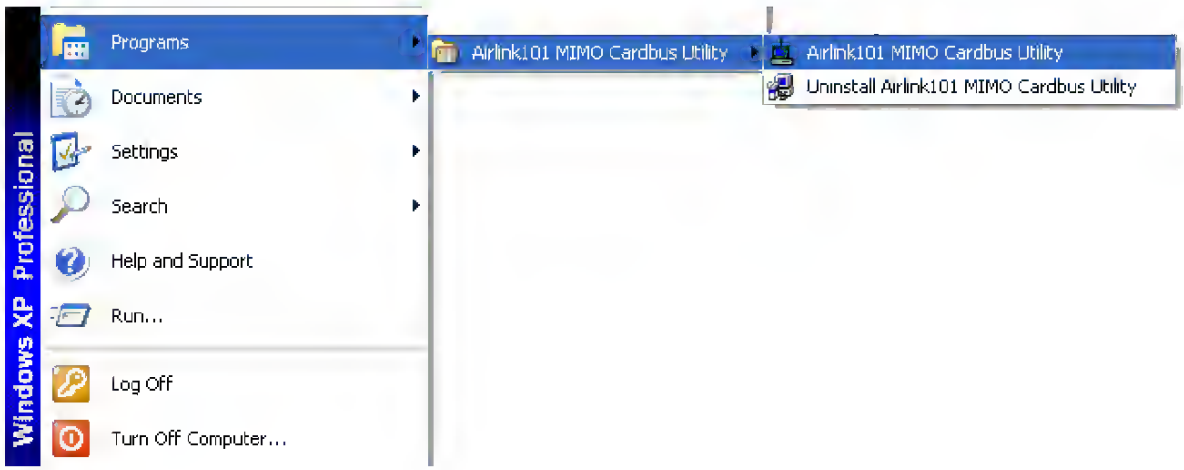
Step 1 Double-click on the **Wireless Network Connection Icon** in the system tray and then click on **Properties** or **Advanced**.

Step 2 Go to the **Wireless Networks** tab, uncheck the **"Use Windows to configure my wireless network settings"** check box and click **OK**.

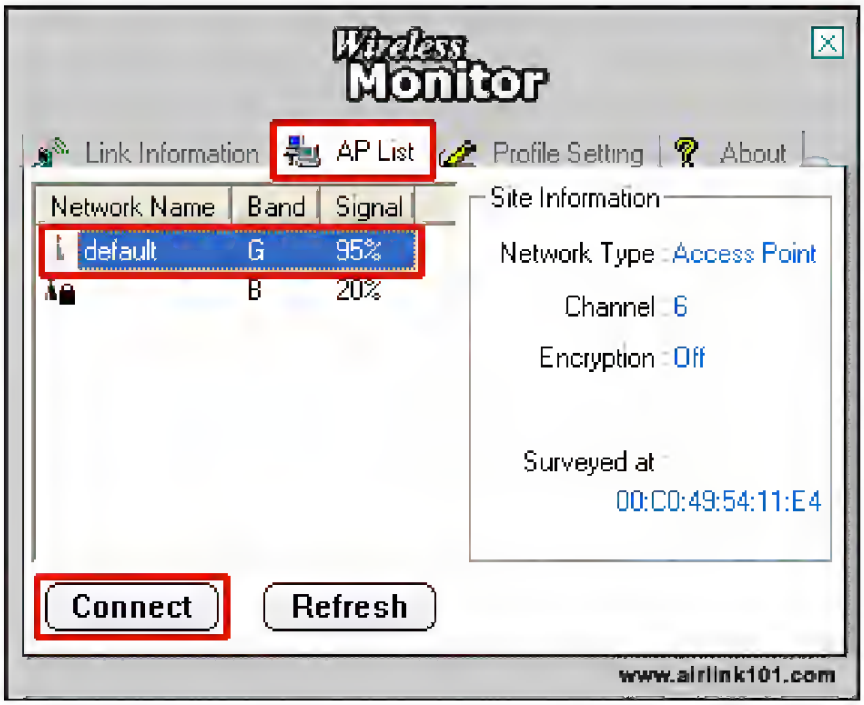


Downloaded from www.Manualslib.com manuals search engine

To open the Cardbus Adapter's utility go to **Start > (All) Programs > Airlink101 MIMO Cardbus Utility > Airlink101 MIMO Cardbus Utility.**

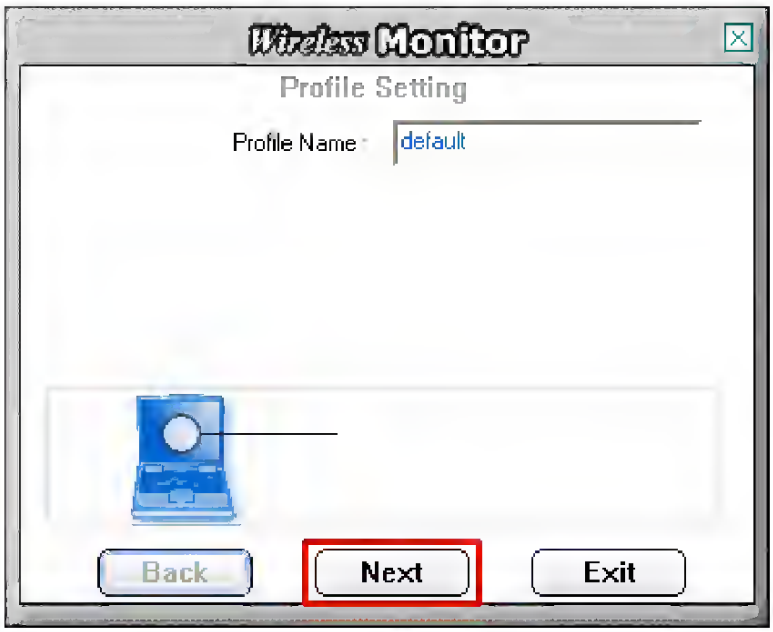


Step 1 Go to the **AP List** tab, select the **SSID** (Network Name) of the wireless network you wish to connect to, and click **Connect**.

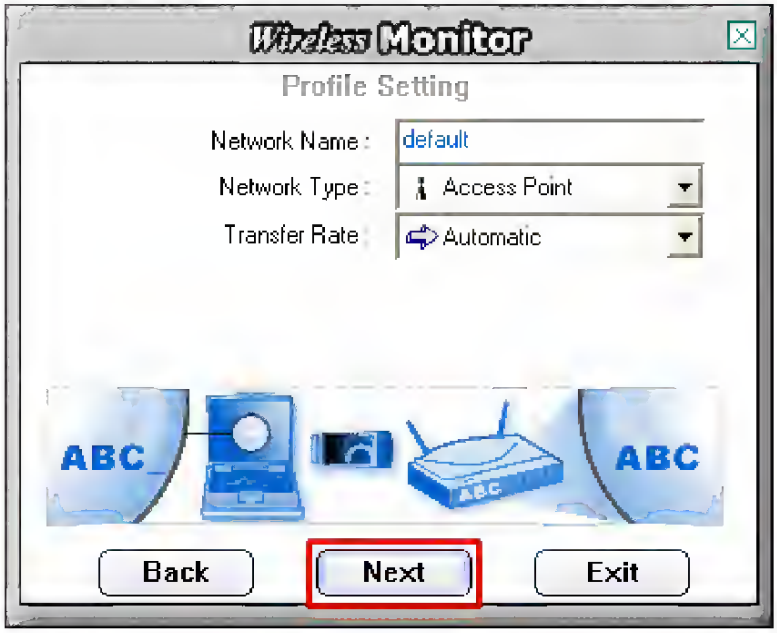


Downloaded from www.Manualslib.com manuals search engine

Step 2 If encryption is not enabled for the selected access point / router, skip to step 6. Otherwise, enter a **Profile Name** for your wireless setting and click **Next**.

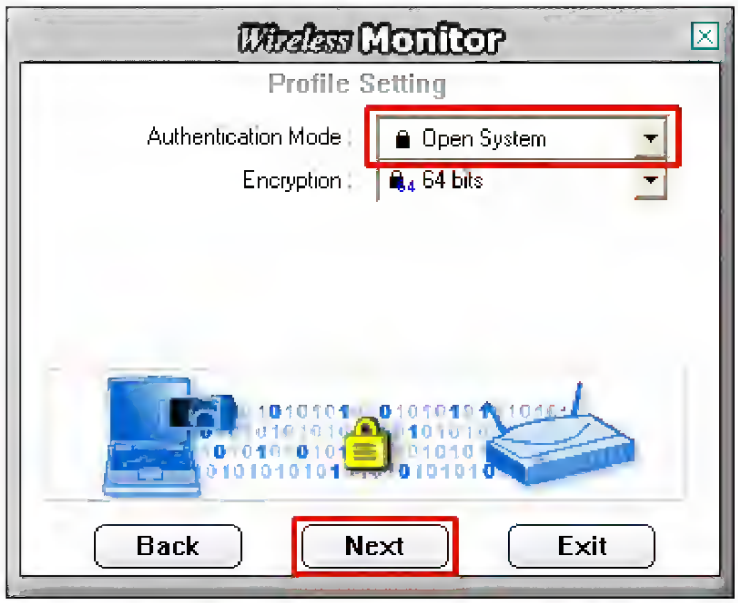


Step 3 Verify that the **Network Name** matches the **SSID** of your wireless network and click **Next**.



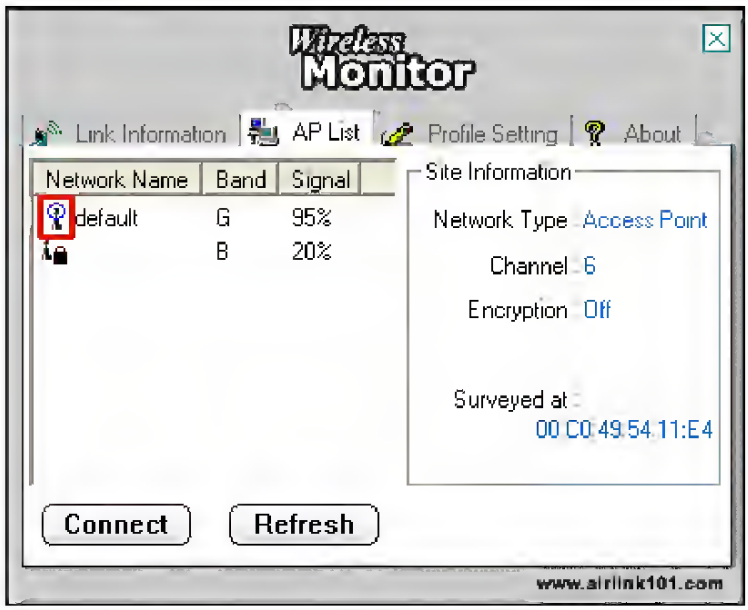
Downloaded from www.Manualslib.com manuals search engine

Step 4 Select the proper encryption setting for your wireless router or access point from the drop-down menu and click **Next**.



Step 5 Follow the on-screen instructions to complete the encryption settings. Click **Complete** when finished.

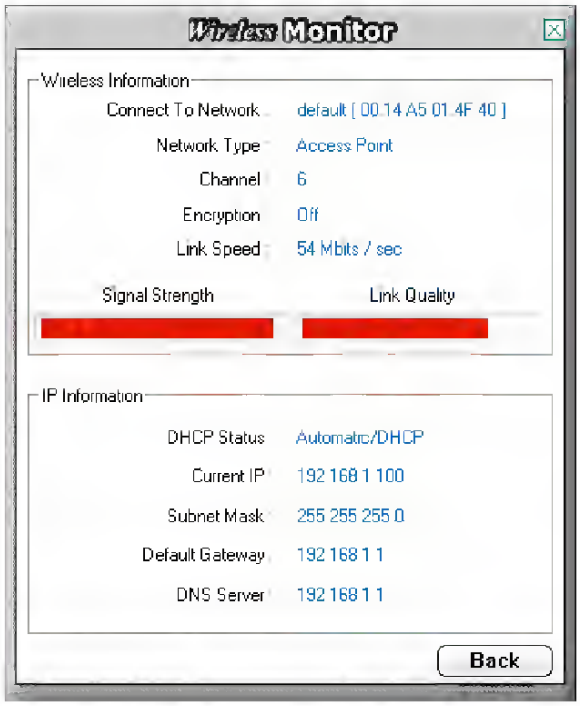
Step 6 You should see a blue circle around the antenna icon indicating a valid connection.



Downloaded from www.Manualslib.com manuals search engine

Step 7 Go to the **Link Information** tab and click on the **More** button.

Step 8 Verify that you are receiving adequate Signal Strength and Link Quality and that you have been assigned a valid IP address (instead of all 0's).



If you do not have adequate Signal Strength, try re-orienting the Access Point and/or the Cardbus Adapter to get a better reception.

Downloaded from www.Manualslib.com manuals search engine

4. Configure the Wireless Utility

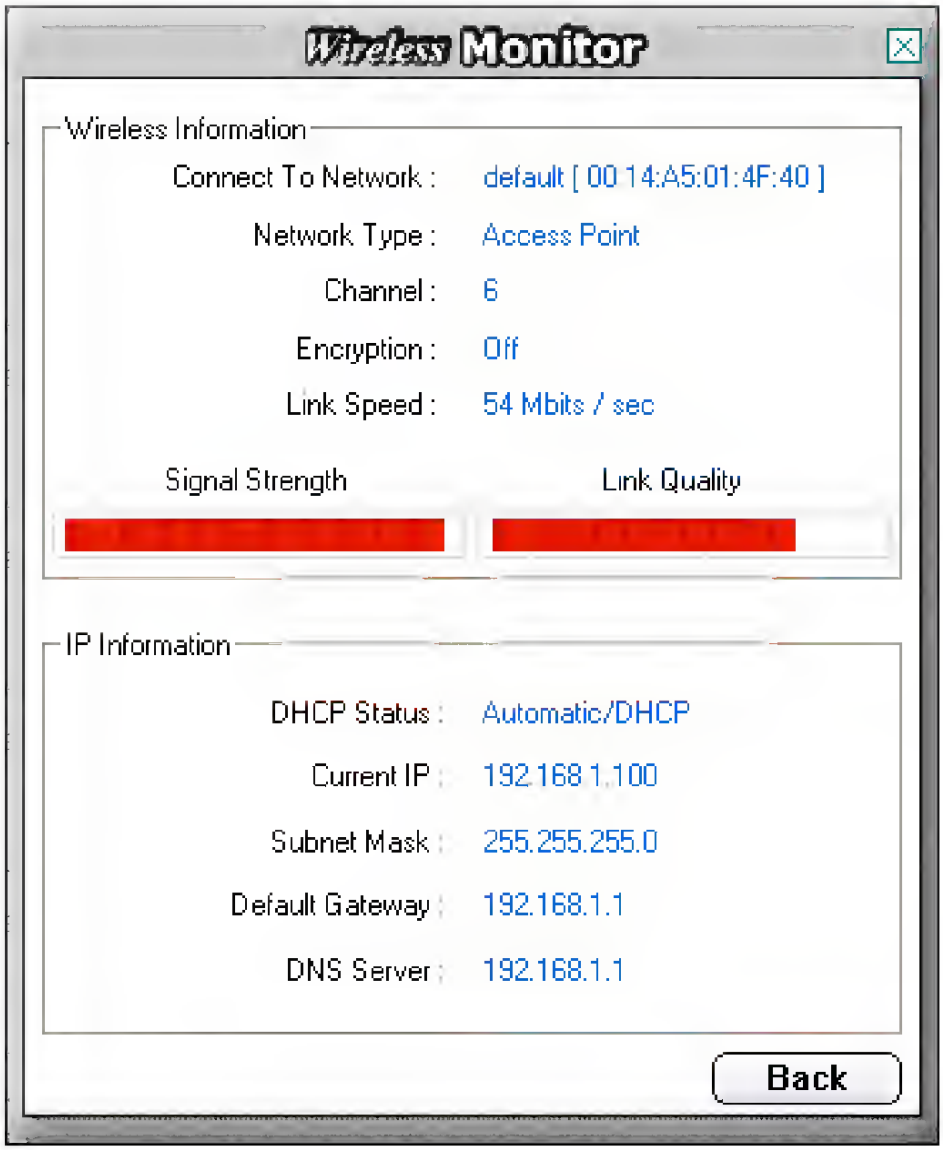
This section describes the various functions of the Wireless Utility that you can configure, including the settings of wireless encryption.

4.1 Link Information

The **Link Information** tab shows the current profile in use as well as details of the current network connection.

Click on the **More** button to see the details of the current network connection.

Downloaded from www.Manualslib.com manuals search engine



The Wireless Information displays the current wireless network you are connected to as well as various other statuses such as the Signal Strength and your assigned IP address.

Downloaded from www.Manualslib.com manuals search engine

4.2 AP List

The **AP List** tab displays all the available Access Points detected by the Cardbus Adapter. Simply select the desired Access Point you wish to connect to and click **Connect**.

The **Site Information** displays a list of status for the selected AP, including the Channel number and the Encryption status.

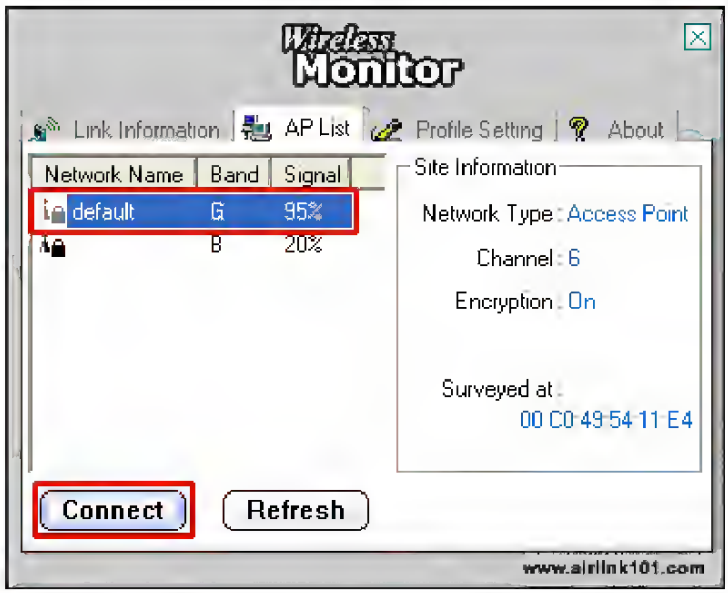
Downloaded from www.Manualslib.com manuals search engine

4.3 Configure Encryption Settings

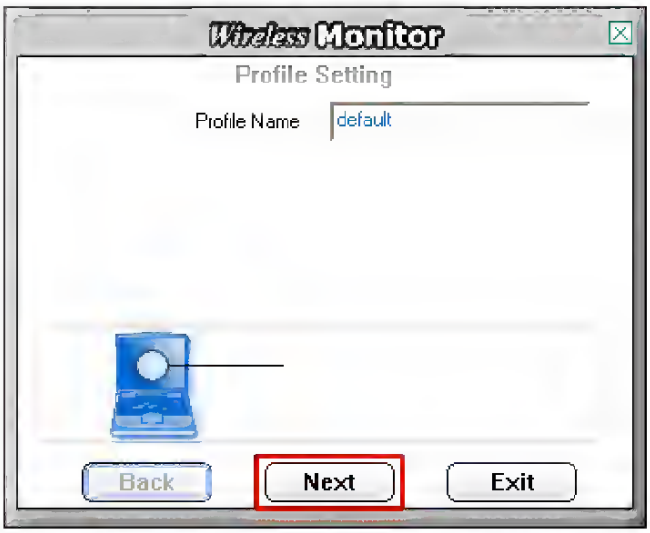
This section describes how to configure encryption settings for the **Cardbus Adapter**.

Note: The encryption settings you set for the Adapter must match the same settings of the Access Point/Wireless Router; otherwise, the encryption will not work properly.

Step 1 From the **AP List** tab, select the Access Point/Wireless Router you want to connect to and click **Connect**.



Step 2 Verify the **Profile Name** is correct and click **Next.**



Downloaded from www.Manualslib.com manuals search engine

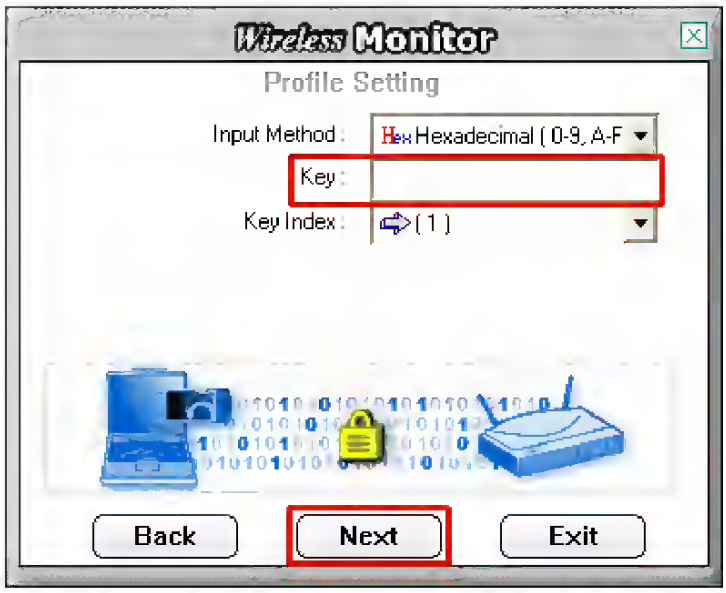
Step 3 Verify the **Network Name (SSID)** is correct and click **Next**.

For WEP Settings:

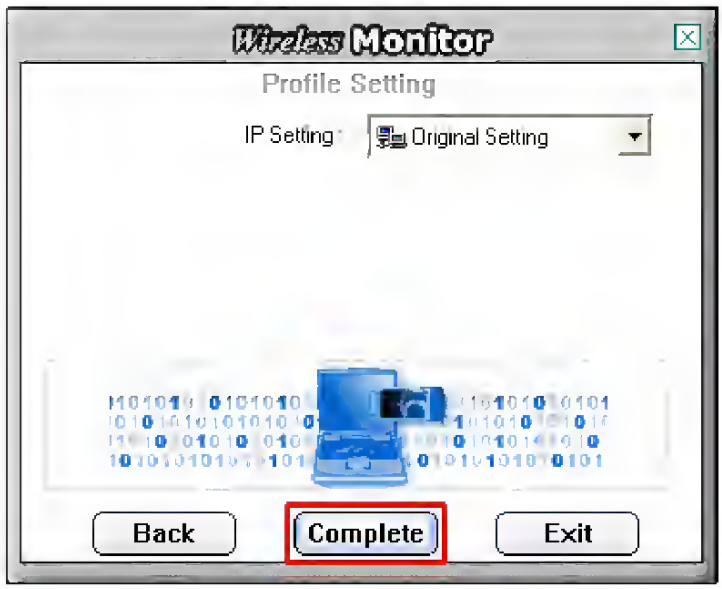
WEP Step 4 Select the appropriate **Authentication Mode** and **Encryption** settings and click **Next**.

Downloaded from www.Manualslib.com manuals search engine

WEP Step 5 Select the appropriate **Input Method**, **Key** (password), **Key Index**, and click **Next**.



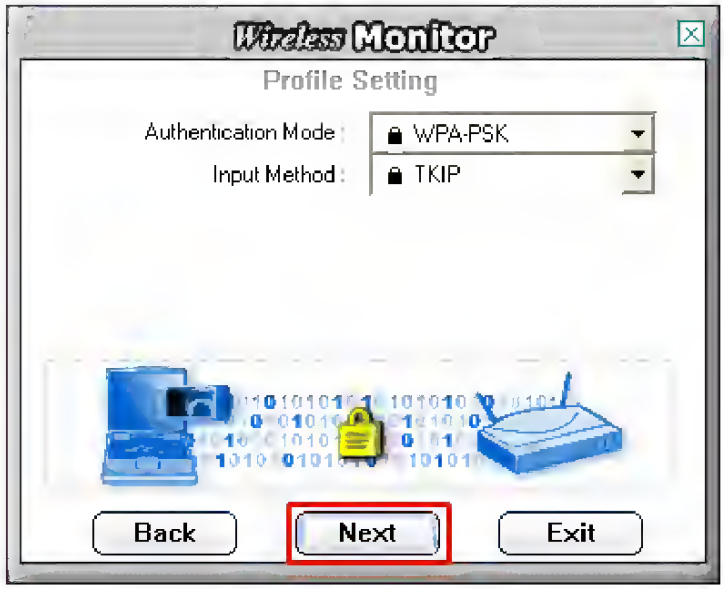
WEP Step 6 Click **Complete** to finish the settings.



Downloaded from www.Manualslib.com manuals search engine

For WPA Settings:

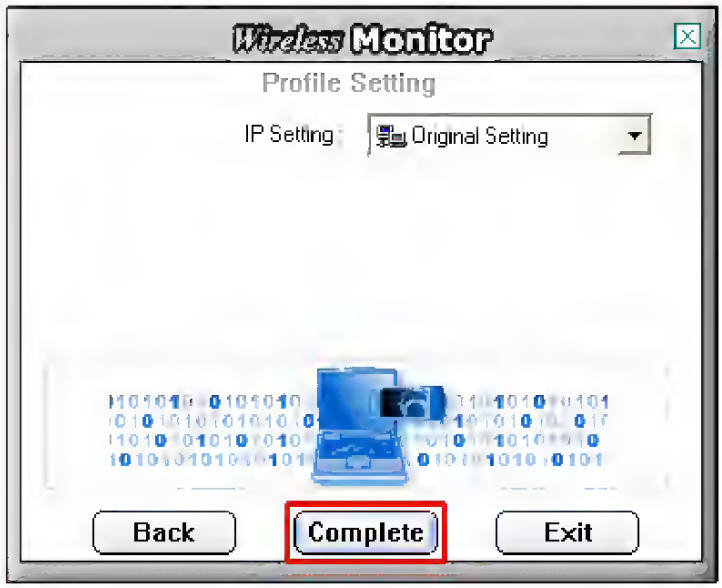
WPA Step 4 Select **WPA-PSK** and the appropriate **Input Method** and click **Next**.



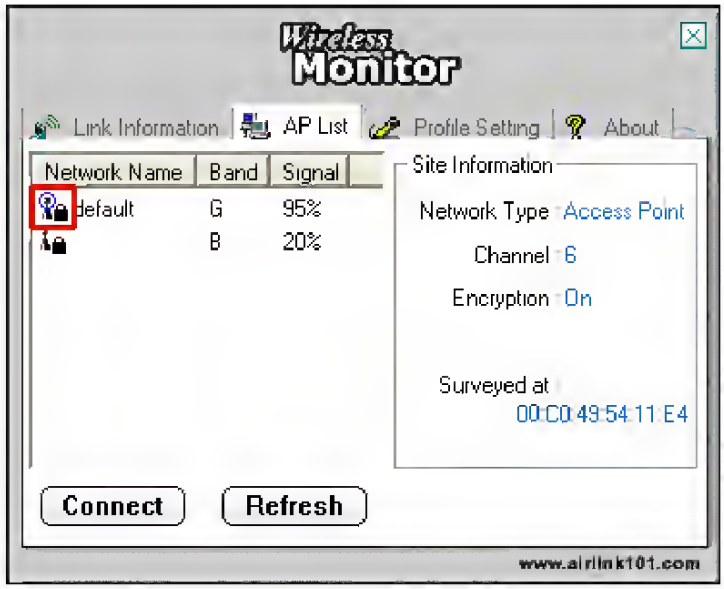
WPA Step 5 Enter the **WPA Key** (passphrase) and click **Next**.

Downloaded from www.Manualslib.com manuals search engine

WPA Step 6 Click **Complete** to finish the settings.



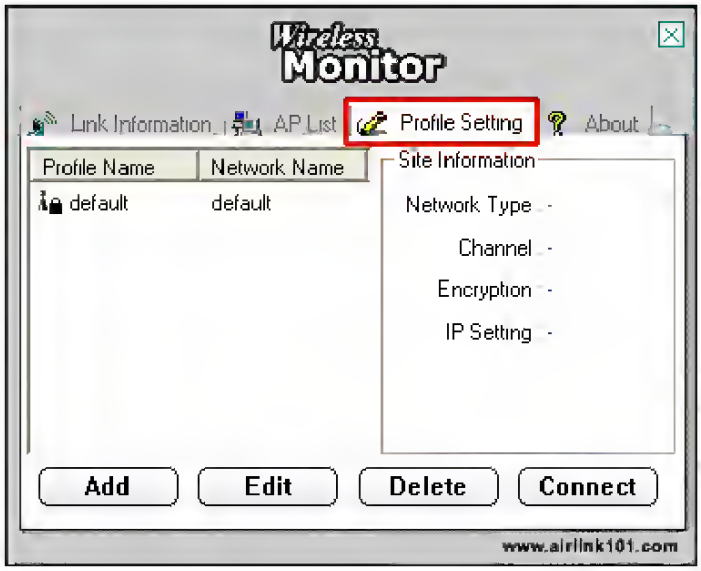
Step 7 You should see a blue circle around the antenna icon indicating a valid connection. A lock icon beside the antenna indicates the connection is encrypted.



Downloaded from www.Manualslib.com manuals search engine

4.4 Profile Setting

The **Profile Setting** tab lists all the profiles you have created. You can create new profiles for different network environments.

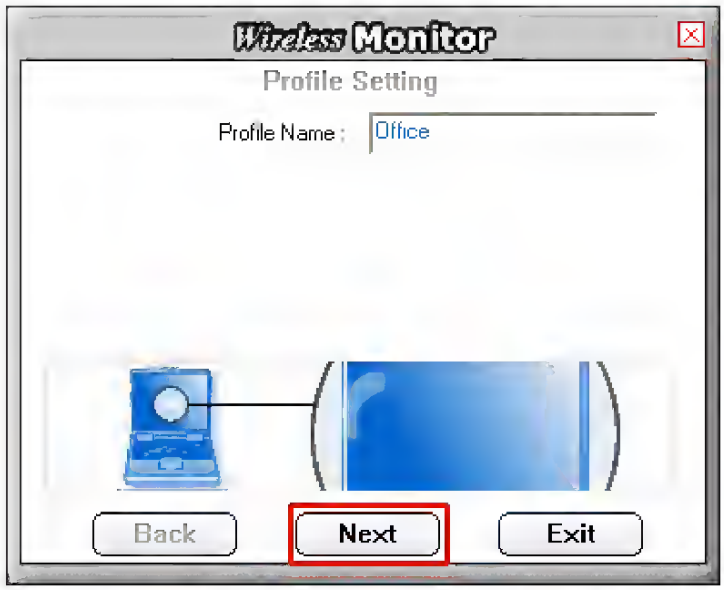


To add a new profile, follow the steps below:

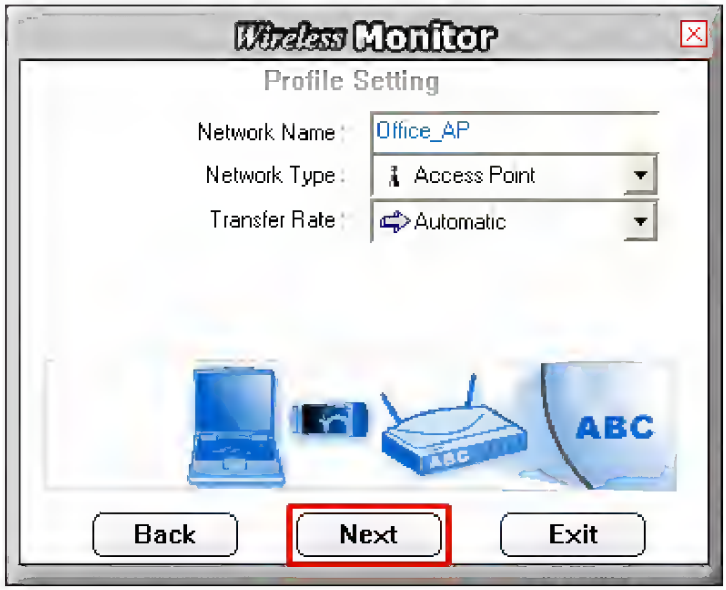
Step 1 Click on the **Add** button.

Downloaded from www.Manualslib.com manuals search engine

Step 2 Enter a name for your new profile and click **Next**.

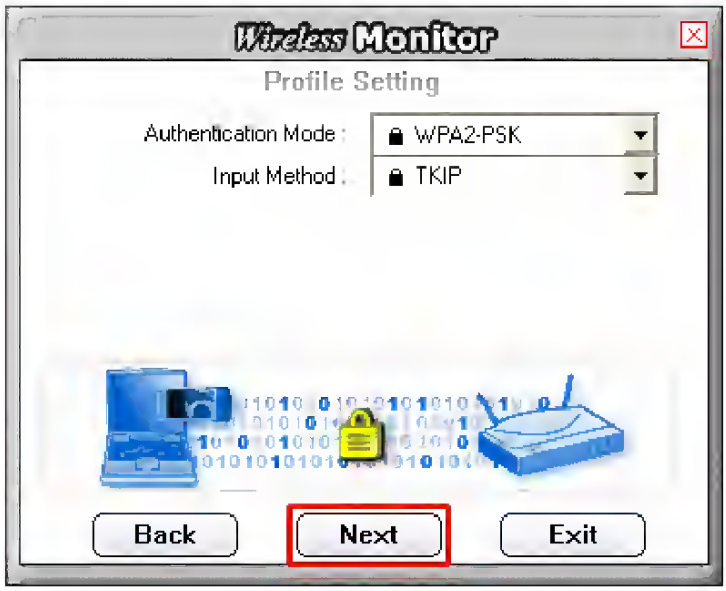


Step 3 Enter the SSID (Network Name) of the wireless network you want to connect to and click **Next**.

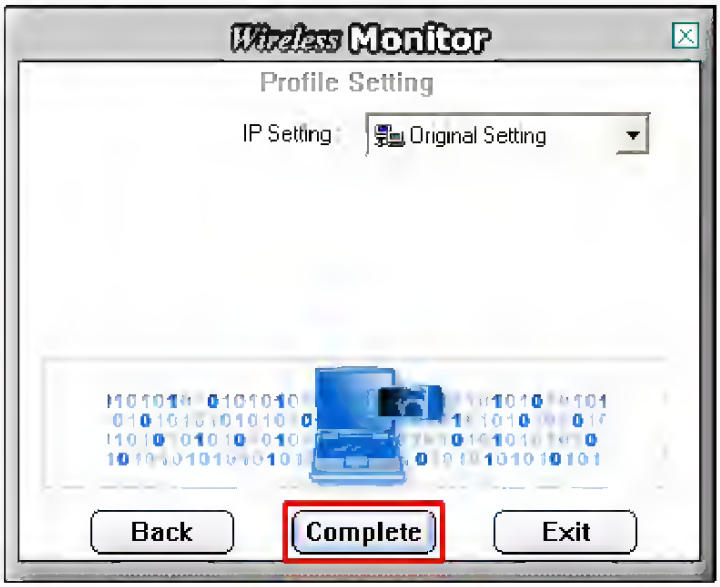


Downloaded from www.Manualslib.com manuals search engine

Step 4 Configure any encryption setting if required and click **Next**.

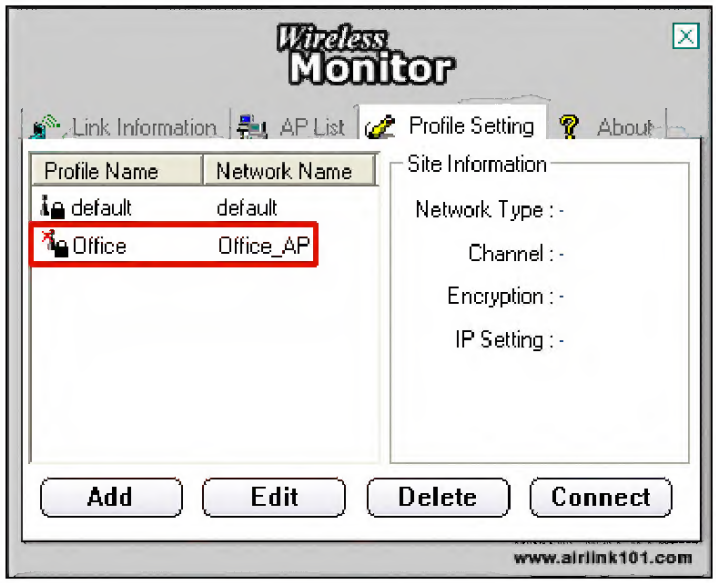


Step 5 Click **Complete** to finish the profile setting.

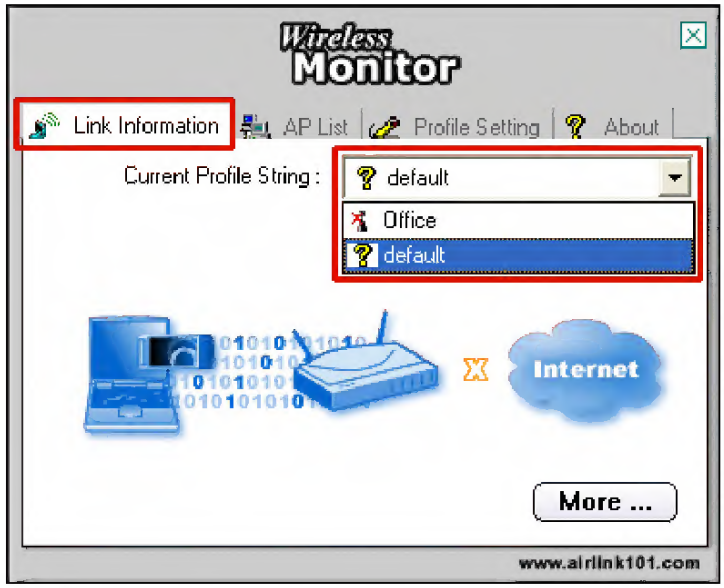


Downloaded from www.Manualslib.com manuals search engine

Step 6 Your new profile will be listed in the Profile List.



Step 7 You can quickly select which profile you want to use from the **Link Information** tab depending on your network environments without having to reconfigure the settings each time.

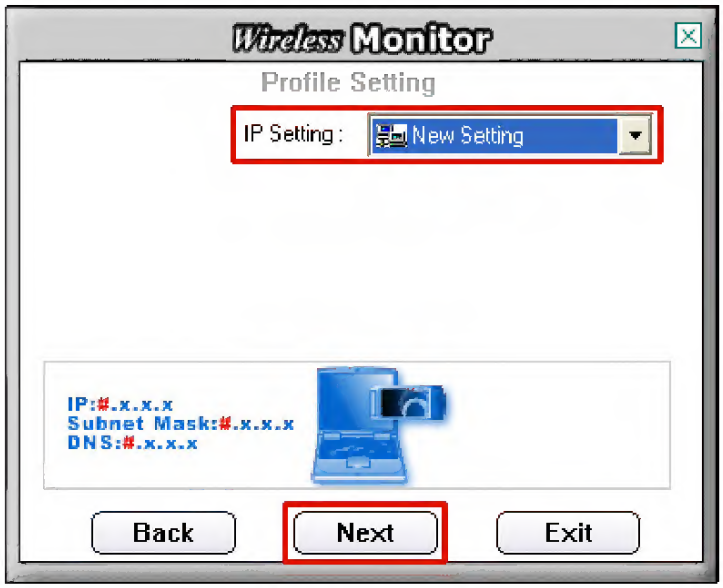


Downloaded from www.Manualslib.com manuals search engine

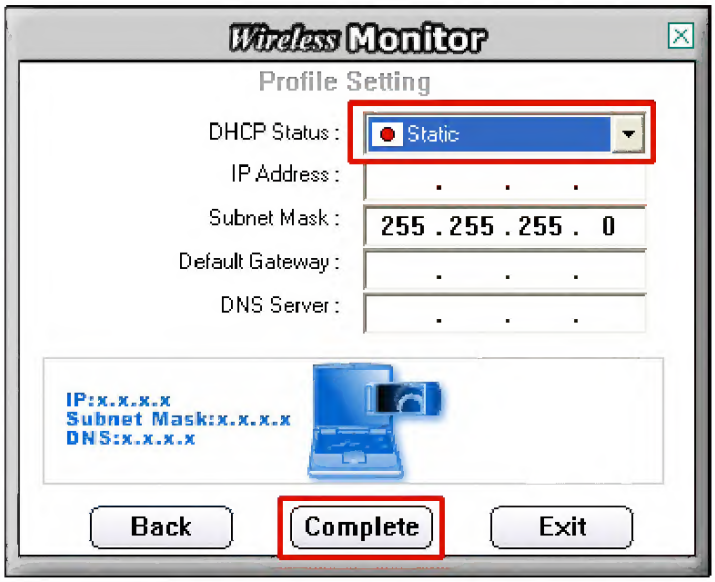
4.5 Static IP Setting

To change the IP address of the wireless adapter to Static IP, follow the steps below:

Step 1 On the last step of *4.4 Profile Setting*, under IP setting, select **New Setting** and click **Next**.



Step 2 Select **Static**.



Step 3 Enter in the information and click **Complete** to finish the setting.

Downloaded from www.Manualslib.com manuals search engine

4.6 About

The About tab shows the Utility, Driver, and Firmware version as well as the MAC address of the **MIMO XR™ Cardbus Adapter.**

Downloaded from www.Manualslib.com manuals search engine

Technical Support

E-mail: support@airlink101.com

Toll Free: 1-888-746-3238

Web Site: www.airlink101.com

*Theoretical maximum wireless signal rate based on IEEE standard 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, mix of wireless products used, radio frequency interference (e.g., cordless telephones and microwaves) as well as network overhead lower actual data throughput rate.

Copyright © 2005 AirLink101. All rights reserved. AirLink101, the stylized AirLink101 logo, specific product designations, and all other words and logos that are identified as trademarks and/or service marks are, unless noted otherwise, the trademarks and service marks of AirLink101. All other product or service names are the property of their respective holders. AirLink101 products are protected under numerous U.S. and foreign patents and pending applications, mask work rights, and copyrights. MIMO XR is a registered trademark of Ralink Technology Corporation.

Downloaded from www.Manualslib.com manuals search engine